# Package 'streamR'

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Title Access to Twitter Streaming API via R
<b>Description</b> This package provides a series of functions that allow R users to access Twitter's filter, sample, and user streams, and to parse the output into data frames.
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Collate 'filterStream.R' 'parseTweets.R' 'sampleStream.R'
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2 countTweets

## **Description**

This package provides a series of functions that allow R users to access Twitter's filter, sample, and user streams, and to parse the output into data frames or mongoDB.

#### Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

#### See Also

 $\verb|filterStream|, sampleStream|, userStream|, readTweets, parseTweets | \verb|getTweets|, countTweets|, topRetweets|$ 

countTweets	Connect to Mongo database and return count of tweets that match certain conditions.
	certain conditions.

### **Description**

countTweets opens a connection to a Mongo database and returns the number of tweets that match a series of conditions: whether it contains a certain keyword, whether it is or not a retweet, or whether or not it contains a hashtag. It depends on the rmongodb package, and a mongo object needs to be loaded in the workspace.

## Usage

```
countTweets(ns, string = NULL, retweets = NULL,
hashtags = NULL, verbose = TRUE)
```

## **Arguments**

ns	string, namespace of the MongoDB collection where tweets were stored. Generally, it will be of the form "database.collection".
string	string, set to NULL by default (will return count of all tweets). If it is a string, it will return the number of tweets that contain that string in the text of the tweet.
retweets	logical, set to NULL by default (will return count of all tweets). If TRUE, will count only tweets that are retweets (i.e. contain an embedded retweeted status - manual retweets are not included). If FALSE, will count only tweets that are not retweets (manual retweets are now included).
hashtags	logical, set to NULL by default (will return count of all tweets). If TRUE, will count only tweets that use a hashtag. If FALSE, will count only tweets that do not contain a hashtag.
verbose	logical, default is TRUE, which generates some output to the R console with information about the count of tweets. If codeFALSE, function will not return any object.

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#### Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

#### **Examples**

```
## Not run:
## capture 100 tweets that mention "twitter" and store them in local MongoDB,
## in collection twitter of database tweets
## (Note: since the track parameter searches also in URLs, this search
## is equivalent to capturing only tweets that contain pictures sent
## using Twitters built-in service)
load(my_oauth)
 tweets <- filterStream( ns="tweets.twitter",</pre>
      track="twitter", tweets=100, oauth=my_oauth )
## connect to the Mongo database using rmongodb package
 library(rmongodb)
 mongo <- mongo.create("localhost", db="tweets")</pre>
## if required, specify username and password
## (MongoDB defaults are empty username and password)
 mongo.authenticate(mongo, username="", password="",
   db="tweets")
## count all tweets in the database
 countTweets( ns="tweets.twitter" )
## count tweets that mention twitter in their text
 countTweets( ns="tweets.twitter", string="twitter")
## count all retweets in the database
 countTweets( ns="tweets.twitter", retweets=TRUE)
## count all tweets that mention twitter and are not retweets
 \verb|countTweets(ns="tweets.twitter", string="twitter", retweets=FALSE)|\\
## count all tweets that use a hashtag
 countTweets( ns="tweets.twitter", hashtags=TRUE)
## End(Not run)
```

example\_tweets

Ten sample tweets published by @twitterapi

## **Description**

A vector of string characters that contains ten sample tweets in plain text.

#### **Source**

```
http://www.twitter.com/twitterapi
```

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filterStream	Connect to	Twitter	Streaming	API	and	return	public	statuses	that
	match one of	r more f	ilter predice	ates.					

## Description

filterStream opens a connection to Twitter's Streaming API that will return public statuses that match one or more filter predicates. Tweets can be filtered by keywords, users, and location. The output can be saved as an object in memory, written to a text file or stored in MongoDB

## Usage

```
filterStream(file.name = NULL, track = NULL,
  follow = NULL, locations = NULL, language = NULL,
  timeout = 0, tweets = NULL, oauth, ns = NULL,
  host = "localhost", username = "", password = "",
  verbose = TRUE)
```

## Arguments

oauth

more details.

file.name	string, name of the file where tweets will be written. "" indicates output to the console, which can be redirected to an R object (see examples). If the file already exists, tweets will be appended (not overwritten).
track	string or string vector containing keywords to track. See the track parameter information in the Streaming API documentation for details: http://dev.twitter.com/docs/streaming-apis/parameters#track.
follow	string or numeric, vector of Twitter user IDs, indicating the users whose public statuses should be delivered on the stream. See the follow parameter information in the Streaming API documentation for details: http://dev.twitter.com/docs/streaming-apis/parameters#follow.
locations	numeric, a vector of longitude, latitude pairs (with the southwest corner coming first) specifying sets of bounding boxes to filter public statuses by. See the locations parameter information in the Streaming API documentation for details: http://dev.twitter.com/docs/streaming-apis/parameters#locations
language	string or string vector containing a list of BCP 47 language identifiers. If not NULL (default), function will only return tweets that have been detected as being written in the specified languages. Note that this parameter can only be used in combination with any of the other filter parameters. See documentation for details: https://dev.twitter.com/docs/streaming-apis/parameters#language
timeout	numeric, maximum length of time (in seconds) of connection to stream. The connection will be automatically closed after this period. For example, setting timeout to 10800 will keep the connection open for 3 hours. The default is 0, which will keep the connection open permanently.
tweets	numeric, maximum number of tweets to be collected when function is called. After that number of tweets have been captured, function will stop. If set to NULL (default), the connection will be open for the number of seconds specified in timeout parameter.

an object of class oauth that contains the access tokens to the user's twitter session. This is currently the only method for authentication. See examples for

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ns	string, namespace of the collection to which tweets will be added. Generally, it will be of the form "database.collection". If the database or the collection do not exist, they will be automatically created; if they exist, tweets will be appended.
host	string host/port where mongo database is hosted. Default is localhost (127.0.0.1).
username	string, username to be used for authentication purposes with MongoDB.
password	string, password corresponding to the given username.
verbose	logical, default is TRUE, which generates some output to the R console with information about the capturing process.

#### **Details**

filterStream provides access to the statuses/filter Twitter stream.

It will return public statuses that match the keywords given in the track argument, published by the users specified in the follow argument, and sent within the location bounding boxes declared in the locations argument.

Note that location bounding boxes do not act as filters for other filter parameters. In the fourth example below, we capture all tweets containing the term rstats (even non-geolocated tweets) OR coming from the New York City area. For more information on how the Streaming API request parameters work, check the documentation at: http://dev.twitter.com/docs/streaming-apis/parameters.

If any of these arguments is left empty (e.g. no user filter is specified), the function will return all public statuses that match the other filters. At least one predicate parameter must be specified.

Note that when no file name is provided, tweets are written to a temporary file, which is loaded in memory as a string vector when the connection to the stream is closed.

The total number of actual tweets that are captured might be lower than the number of tweets requested because blank lines, deletion notices, and incomplete tweets are included in the count of tweets downloaded.

To store tweets in MongoDB, it is necessary to install the MongoDB server in a local or remote machine. See here for instructions: http://docs.mongodb.org/manual/installation/

#### Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

#### See Also

sampleStream, userStream, parseTweets

```
## Not run:

## An example of an authenticated request using the ROAuth package,
## where consumerkey and consumer secret are fictitious.

## You can obtain your own at dev.twitter.com
  library(ROAuth)
  requestURL <- "https://api.twitter.com/oauth/request_token"
  accessURL <- "http://api.twitter.com/oauth/access_token"
  authURL <- "http://api.twitter.com/oauth/authorize"
  consumerKey <- "xxxxxxyyyyyzzzzzz"
  consumerSecret <- "xxxxxxxyyyyyzzzzzzz"</pre>
```

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```
my_oauth <- OAuthFactory$new(consumerKey=consumerKey,</pre>
   consumerSecret=consumerSecret, requestURL=requestURL,
   accessURL=accessURL, authURL=authURL)
  my_oauth$handshake(cainfo = system.file("CurlSSL", "cacert.pem", package = "RCurl"))
  filterStream( file="tweets_rstats.json",
   track="rstats", timeout=3600, oauth=my_oauth )
## capture 10 tweets mentioning the "Rstats" hashtag
  filterStream( file.name="tweets_rstats.json",
     track="rstats", tweets=10, oauth=my_oauth )
## capture tweets published by Twitters official account
  filterStream( file.name="tweets_twitter.json",
     follow="783214", timeout=600, oauth=my_oauth )
## capture tweets sent from New York City in Spanish only, and saving as an object in memory
  tweets <- filterStream( file.name="", language="es",</pre>
      locations=c(-74,40,-73,41), timeout=600, oauth=my_oauth)
## capture tweets mentioning the "rstats" hashtag or sent from New York City
  filterStream( file="tweets_rstats.json", track="rstats",
      locations=c(-74,40,-73,41), timeout=600, oauth=my_oauth)
## capture 100 tweets sent from New York City and storing in MongoDB, in collection
## nyc of database tweets
  tweets <- filterStream( ns="tweets.nyc",</pre>
      locations=c(-74,40,-73,41), tweets=100, oauth=my_oauth)
## same as above, but also storing tweets in disk
  tweets <- filterStream( file.name="tweets_nyc.json", ns="tweets.nyc",</pre>
      locations=c(-74,40,-73,41), tweets=100, oauth=my_oauth)
## End(Not run)
```

getTweets

Connect to Mongo database and extract tweets that match conditions specified in the arguments.

#### **Description**

getTweets opens a connection to a Mongo database and returns tweets that match a series of conditions: whether it contains a certain keyword, whether it is or not a retweet, or whether or not it contains a hashtag. It allows to specify the fields of the tweet to be extracted. The function depends on the rmongodb package, and a mongo object needs to be loaded in user's workspace.

## Usage

```
getTweets(ns, string = NULL, df = TRUE,
  fields = c("created_at", "user.screen_name", "text"),
  retweets = NULL, hashtags = NULL, verbose = TRUE)
```

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## **Arguments**

ns	string, namespace of the MongoDB collection where tweets were stored. Generally, it will be of the form "database.collection".
string	string, set to NULL by default (will return count of all tweets). If it is a string, it will return the number of tweets that contain that string in the text of the tweet.
df	logical, default is TRUE, which will return tweets in a data frame. Otherwise, tweets will be return in list format.
fields	vector of strings, indicates fields from tweets that will be returned. Default is the date and time of the tweet, its text, and the screen name of the user that published it. See details for full list of possible fields.
retweets	logical, set to NULL by default (will return count of all tweets). If TRUE, will count only tweets that are retweets (i.e. contain an embedded retweeted status - manual retweets are not included). If FALSE, will count only tweets that are not retweets (manual retweets are now included).
hashtags	logical, set to NULL by default (will return count of all tweets). If TRUE, will count only tweets that use a hashtag. If FALSE, will count only tweets that do not contain a hashtag.
verbose	logical, default is TRUE, which generates some output to the R console with information about the count of tweets.

#### **Details**

The following is a non-exhaustive of relevant fields that can be specified on the fields argument (for a complete list, check the documentation at: https://dev.twitter.com/docs/platform-objects
Tweet: text, created\_at, id\_str, favorite\_count, source, retweeted, retweet\_count, lang, in\_reply\_to\_status\_id, in\_reply\_to\_screen\_name Entities: entities.hashtags, entities.user\_mentions, entities.hashtags, entities.urls Retweeted\_status: retweeted\_status.text, retweeted\_status.created\_at... (and all other tweet, user, and entities fields) User: user.screen\_name, user.id\_str, user.geo\_enabled, user.location, user.followers\_count, user.statuses\_count, user.friends\_count, user.description, user.lang, user.name, user.url, user.created\_at, user.time\_zone Geo: geo.coordinates

## Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

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```
## extract text from all tweets in the database
  tweets <- getTweets( ns="tweets.nyc", fields="text")

## extract tweets, with text and screen name
  tweets <- getTweets( ns="tweets.nyc", fields=c("user.screen_name", "text"))

## extract all tweets that mention times square
  tweets <- getTweets( ns="tweets.nyc", string="times square")

## extract date of all tweets that mention times square
  tweets <- getTweets( ns="tweets.nyc", string="times square", fields="created_at")

## End(Not run)</pre>
```

parseTweets

Converts tweets in JSON format to data frame.

## **Description**

This function parses tweets downloaded using filterStream, sampleStream or userStream and returns a data frame.

## Usage

```
parseTweets(tweets, simplify = FALSE, verbose = TRUE)
```

## **Arguments**

tweets	A character string naming the file where tweets are stored or the name of the object in memory where the tweets were saved as strings.
simplify	If TRUE it will return a data frame with only tweet and user fields (i.e., no geographic information or use entities)

graphic information or url entities).

verbose logical, default is TRUE, which will print in the console the number of tweets that

have been parsed.

## **Details**

parseTweets parses tweets downloaded using the filterStream, sampleStream or userStream functions and returns a data frame where each row corresponds to one tweet and each column represents a different field for each tweet (id, text, created\_at, etc.).

The total number of tweets that are parsed might be lower than the number of lines in the file or object that contains the tweets because blank lines, deletion notices, and incomplete tweets are ignored.

To parse json to a twitter list, see readTweets. That function can be significantly faster for large files, when only a few fields are required.

## Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

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#### See Also

filterStream, sampleStream, userStream

#### **Examples**

```
## The dataset example_tweets contains 10 public statuses published
## by @twitterapi in plain text format. The code below converts the object
## into a data frame that can be manipulated by other functions.
data(example_tweets)
tweets.df <- parseTweets(example_tweets, simplify=TRUE)</pre>
## A more complete example, that shows how to capture a users home timeline
## for one hour using authentication via OAuth, and then parsing the tweets
## into a data frame.
library(ROAuth)
 reqURL <- "https://api.twitter.com/oauth/request_token"</pre>
 accessURL <- "http://api.twitter.com/oauth/access_token"</pre>
 authURL <- "http://api.twitter.com/oauth/authorize"</pre>
 consumerKey <- "xxxxxyyyyyzzzzzz"</pre>
 consumerSecret <- "xxxxxxyyyyyzzzzzzz1111111222222"</pre>
 my_oauth <- OAuthFactory$new(consumerKey=consumerKey,</pre>
                               consumerSecret=consumerSecret,
                               requestURL=reqURL,
                               accessURL=accessURL,
                               authURL=authURL)
 my_oauth$handshake()
 userStream( file="my_timeline.json", with="followings",
         timeout=3600, oauth=my_oauth )
 tweets.df <- parseTweets("my_timeline.json")</pre>
## End(Not run)
```

readTweets

Converts tweets in JSON format to R list.

## **Description**

This function parses tweets downloaded using filterStream, sampleStream or userStream and returns a list.

#### Usage

```
readTweets(tweets, verbose = TRUE)
```

#### **Arguments**

tweets A character string naming the file where tweets are stored or the name of the

object in memory where the tweets were saved as strings.

verbose logical, default is TRUE, which will print in the console the number of tweets that

have been parsed.

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#### **Details**

This function is the first step in the parseTweets function and is provided now as an independent function for convenience purposes. In cases where only one field is needed, it can be faster to extract it directly from the JSON data read in R as a list. It can also be useful to extract fields that are not parsed by parseTweets, such as hashtags or mentions.

The total number of tweets that are parsed might be lower than the number of lines in the file or object that contains the tweets because blank lines, deletion notices, and incomplete tweets are ignored.

#### Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

#### See Also

```
parseTweets.
```

## **Examples**

```
## The dataset example_tweets contains 10 public statuses published
## by @twitterapi in plain text format. The code below converts the object
## into a list and extracts only the text.

data(example_tweets)
tweets.list <- readTweets(example_tweets)
only.text <- unlist(lapply(tweets.list, [[, text))
## it can be done with an explicit loop:
only.text <- c()
for (i in 1:length(tweets.list)){
    only.text[i] <- tweets.list[[i]][text]
}
print(unlist(only.text))</pre>
```

sampleStream

Connect to Twitter Streaming API and return a small random sample of all public statuses.

## **Description**

sampleStream opens a connection to Twitter's Streaming API that will return a small random sample of public statuses, around 1% at any given time.

## Usage

```
sampleStream(file.name, timeout = 0, tweets = NULL,
  oauth = NULL, verbose = TRUE)
```

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#### **Arguments**

file.name string, name of the file where tweets will be written. "" indicates output to the

console, which can be redirected to an R object. If the file already exists, tweets

will be appended (not overwritten).

timeout numeric, maximum length of time (in seconds) of connection to stream. The

connection will be automatically closed after this period. For example, setting timeout to 10800 will keep the connection open for 3 hours. The default is 0,

which will keep the connection open permanently.

tweets numeric, maximum number of tweets to be collected when function is called.

After that number of tweets have been captured, function will stop. If set to NULL (default), the connection will be open for the number of seconds specified

in timeout parameter.

oauth an object of class oauth that contains the access tokens to the user's twitter

session. This is currently the only method for authentication. See examples for

more details.

verbose logical, default is TRUE, which generates some output to the R console with

information about the capturing process.

#### **Details**

For more information, check the documentation at: https://dev.twitter.com/docs/api/1.1/get/statuses/sample

Note that when no file name is provided, tweets are written to a temporary file, which is loaded in memory as a string vector when the connection to the stream is closed.

The total number of actual tweets that are captured might be lower than the number of tweets requested because blank lines, deletion notices, and incomplete tweets are included in the count of tweets downloaded.

#### Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

## See Also

filterStream, userStream, parseTweets

```
## Not run:
## capture a random sample of tweets
sampleStream( file.name="tweets_sample.json", user=F00, password=BAR )
## An example of an authenticated request using the ROAuth package,
## where consumerkey and consumer secret are fictitious.
## You can obtain your own at dev.twitter.com
library(ROAuth)
reqURL <- "https://api.twitter.com/oauth/request_token"
accessURL <- "http://api.twitter.com/oauth/access_token"
authURL <- "http://api.twitter.com/oauth/authorize"
consumerKey <- "xxxxxxyyyyyzzzzzz"
consumerSecret <- "xxxxxxyyyyyzzzzzzz"
my_oauth <- OAuthFactory$new(consumerKey=consumerKey,</pre>
```

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```
consumerSecret=consumerSecret, requestURL=requestURL,
    accessURL=accessURL, authURL=authURL)
my_oauth$handshake(cainfo = system.file("CurlSSL", "cacert.pem", package = "RCurl"))
sampleStream( file.name="tweets_sample.json", oauth=my_oauth )

## End(Not run)

topRetweets

Connect to Mongo database and extract top retweets that match conditions specified in the arguments.
```

## **Description**

topRetweets opens a connection to a Mongo database and returns all retweets (or only retweets that mention a specific keyword) ordered by total number of retweets received.

#### Usage

```
topRetweets(ns, string = NULL, min = 10, verbose = TRUE)
```

#### **Arguments**

ns	string, namespace of the MongoDB collection where tweets were stored. Generally, it will be of the form "database.collection".
string	string, set to NULL by default (will return count of all tweets). If it is a string, it will return the number of tweets that contain that string in the text of the tweet.
min	numeric, set to 10 by default (will return all retweets whose retweet count is at least 10). In large datasets, choose a high number to increase speed of query.
verbose	logical, default is TRUE, which generates some output to the R console with information about the count of tweets.

## **Details**

Note that this function will only return retweets that are made using the built-in retweeting system - this is, 'manual' retweets using copy&paste are not included. Also note that total retweet counts are based on Twitter's internal tally, and do not reflect the number of retweets in the database. In other words, it could happen that the most popular retweet in a given moment is a tweet that was originally sent days ago, but was retweeted during the time of that tweets were captured.

## Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

```
## Not run:
## capture 100 tweets that mention "twitter" and store them in local MongoDB,
## in collection twitter of database tweets
## (Note: since the track parameter searches also in URLs, this search
## is equivalent to capturing only tweets that contain pictures sent
## using Twitters built-in service)
```

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userStream

Connect to Twitter Streaming API and return messages for a single user.

#### **Description**

userStream opens a connection to Twitter's Streaming API that will return statuses specific to the authenticated user. The output can be saved as an object in memory, written to a text file or stored in MongoDB.

## Usage

```
userStream(file.name = NULL, with = "followings",
  replies = NULL, track = NULL, locations = NULL,
  timeout = 0, tweets = NULL, oauth, ns = NULL,
  host = "localhost", username = "", password = "",
  verbose = TRUE)
```

## **Arguments**

file.name

string, name of the file where tweets will be written. "" indicates output to the console, which can be redirected to an R object. If the file already exists, tweets will be appended (not overwritten).

with

string, detault is "followings", which will stream messages from accounts the authenticated user follow. If set to "user", will only stream messages from authenticated user.

See the with parameter information in the Streaming API documentation for details: https://dev.twitter.com/docs/streaming-apis/parameters#with

replies

string, default is NULL, which will only stream replies sent by a different user if the authenticated user follows the receiver of the reply. All replies to users that the authenticated user follows will be included if this argument is set to "all".

See the replies parameter information in the Streaming API documentation for details: https://dev.twitter.com/docs/streaming-apis/parameters#replies

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track string or string vector containing keywords to track. See the track parameter information in the Streaming API documentation for details: http://dev.

twitter.com/docs/streaming-apis/parameters#track.

locations numeric, a vector of longitude, latitude pairs (with the southwest corner coming

first) specifying sets of bounding boxes to filter statuses by. See the locations parameter information in the Streaming API documentation for details: http:

//dev.twitter.com/docs/streaming-apis/parameters#locations

timeout numeric, maximum length of time (in seconds) of connection to stream. The

connection will be automatically closed after this period. For example, setting timeout to 10800 will keep the connection open for 3 hours. The default is 0,

which will keep the connection open permanently.

tweets numeric, maximum number of tweets to be collected when function is called.

After that number of tweets have been captured, function will stop. If set to NULL (default), the connection will be open for the number of seconds specified

in timeout parameter.

oauth an object of class oauth that contains the access tokens to the user's twitter

session. This is the only method for authentication available for user streams.

See examples for more details.

ns string, namespace of the collection to which tweets will be added. Generally, it

will be of the form "database.collection". If the database or the collection do not exist, they will be automatically created; if they exist, tweets will be appended.

host string host/port where mongo database is hosted. Default is localhost (127.0.0.1).

username string, username to be used for authentication purposes with MongoDB.

password string, password corresponding to the given username.

verbose logical, default is TRUE, which generates some output to the R console with

information about the capturing process.

#### **Details**

This function provides access to messages for a single user.

The set of messages to be returned can include the user's tweets and/or replies, and public statuses published by the accounts the user follows, as well to replies to those accounts.

Tweets can also be filtered by keywords and location, using the track and locations arguments.

The total number of actual tweets that are captured might be lower than the number of tweets requested because blank lines, deletion notices, and incomplete tweets are included in the count of tweets downloaded.

Note that when no file name is provided, tweets are written to a temporary file, which is loaded in memory as a string vector when the connection to the stream is closed.

To store tweets in MongoDB, it is necessary to install the MongoDB server in a local or remote machine. See here for instructions: http://docs.mongodb.org/manual/installation/

#### Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

#### See Also

filterStream, sampleStream, parseTweets

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```
## Not run:
## The following example shows how to capture a users home timeline
## with the Streaming API and using authentication via the ROAuth
## package, with fictitious consumerkey and consumer secret.
## You can obtain your own at dev.twitter.com
library(ROAuth)
 requestURL <- "https://api.twitter.com/oauth/request_token"</pre>
{\tt accessURL} \ {\tt <-} \ "http://api.twitter.com/oauth/access\_token"
authURL <- "http://api.twitter.com/oauth/authorize"</pre>
consumerKey <- "xxxxxyyyyyzzzzzz"</pre>
consumerSecret <- "xxxxxxyyyyyzzzzzzz111111222222"</pre>
my_oauth <- OAuthFactory$new(consumerKey=consumerKey,</pre>
    consumerSecret=consumerSecret, requestURL=requestURL,
    accessURL=accessURL, authURL=authURL)
my_oauth$handshake(cainfo = system.file("CurlSSL", "cacert.pem", package = "RCurl"))
 save(my_oauth, file="my_oauth")
userStream( file.name="my_timeline.json", with="followings",
     timeout=600, oauth=my_oauth )
\#\# Capturing 10 tweets from users timeline and storing in MongoDB
load("my_oauth")
userStream( ns="tweets.mytimeline", with="followings",
     tweets=10, oauth=my_oauth )
## End(Not run)
```

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